

To Alex Chen/CNSL/R7/USEPA/US@EPA

cc "FREMERMAN, GARY"

<GARY.FREMERMAN@OGC.USDA.GOV>, Mary

Angeles/DC/USEPA/US@EPA, Carl

bcc

Subject GIPSA Facility in Kansas City

Alex – attached are GIPSA's responses to Region 7's follow-up questions.

GIPSA would like to reiterate that its Kansas City laboratory is unquestionably a RCRA small quantity generator, and was a small quantity generator during the time period covered by the complaint. They are willing to provide whatever additional information may be required, and are available to demonstrate how their pesticide databases work.

GIPSA also has confirmed that any penalty would have to be paid out of the Technical Services Division's limited operating budget for 2007. There is no other source of funds at USDA that can be used for any financial penalty. GIPSA respectfully requests the opportunity to explore with Region 7 the possibility of resolving this matter without a financial penalty.

Gary Fremerman USDA OGC Pollution Control Team 202-720-8041

From: Ronald.C.Bicsak@gipsa.usda.gov [mailto:Ronald.C.Bicsak@gipsa.usda.gov]

Sent: Friday, February 09, 2007 11:10 AM

To: FREMERMAN, GARY

Cc: Steven.N.Tanner@gipsa.usda.gov; Donald.C.Kendall@gipsa.usda.gov;

Thomas.A.Weber@gipsa.usda.gov

Subject: Response to EPA Questions Dated 1-4-07

Including attachments.

Ranald C. Bicsak

USDA-GIPSA-QSS 10383 N. Ambassador Drive Kansas City, Missouri 64153 816-891-0431 816-891-8070 FAX Ronald.C.Bicsak@USDA.GOV









Database Contents.doc Cyclohexane MSDS.doc Ethyl acetate MSDS.doc Methanol MSDS.doc IL 1011 FEE.tif ONYX manifest.tif



Responses to EPA letter 1-4-07.doc

FOR SETTLEMENT PURPOSES ONLY

Gary -

I want to thank you and the GIPSA staff for your hard work in putting together the January 4, 2007 submittal (and its attachments). In reviewing these materials, EPA's enforcement team had some additional questions. We believe the answers to these questions will give us a better factual understanding of the operations at the FGIS lab.

- 1. You state on page 4 of your letter that "[f]ollowing receipt of the Region 7 complaint, GIPSA consulted with USDA environmental experts, re-reviewed its laboratory waste-generation processes, and thoroughly analyzed all relevant information contained in the comprehensive pesticide databases that the laboratory maintains. Based on that review, laboratory personnel determined the specific amounts of 'acute' hazardous waste that the laboratory generated each calendar month from January 2001 until November 2006. In addition, using the facility's waste manifests, laboratory personnel were also able to determine the total amount of 'acute' hazardous waste that was accumulated onsite during this period."
- a) Can you explain in more detail the methodology/process used in creating (calculating) the information in the spreadsheets attached to your letter? In addition, please provide any and all documentation (for example, the "facility's waste manifests" that you referred to, receipts, the "comprehensive pesticide databases" etc.) that verify the information on these spreadsheets.

The Pesticide Data Program that GIPSA conducts at the Kansas City laboratory is ISO 9001 registered, which requires maintenance of records of the history of pure (neat) standards from purchasing through usage and disposal. We maintain electronic databases to keep all this data. The spreadsheets were developed from these databases and logbooks. Queries were made using the databases and the list of specific "P-listed" chemicals (40 CFR 261.33(e), 7/1/2006) to obtain the numbers used in the actual determination.

The databases and log books are too large and cumbersome to forward to you, however if you would be agreeable to visit our location we would show them to you and demonstrate the calculations. Copies of the waste manifests are attached.

b) When was this spreadsheet originally created? Was it specifically prepared as a result of the enforcement action that EPA initiated?

The initial database was created in February 1999, but the spreadsheet was created in December of 2006 in response to the enforcement action.

c) If the spreadsheet was created prior to EPA's inspection in November 2005, why was it not brought to the inspector's attention at that time, when she asked for verification of the acute hazardous waste generation rate? Or, alternatively, during any communications or discussion after the inspection?

The spreadsheet was not developed until after the inspection, and therefore was not available to be shared with the inspector. Activities after the inspection focused on addressing the deficiences identified by the inspector. The distinction between hazardous waste and acute hazardous waste was not clearly defined during the inspection or during the correspondences resulting from the findings, and therefore our focus was to correct the deficiencies identified during the inspection that could affect future operations.

d) Did the USDA lab have these "comprehensive pesticide databases" in place at the time of the inspection? Please briefly describe how this database works, and what kinds of information (data fields) are put into the database.

The initial database was created in February of 1999, for the Pesticide Data Program and an additional database was created to track pesticides used in another pesticide analysis program. These databases track the history of pure (neat) standards from purchasing and receipt through usage and disposal. The log books and databases are maintained by the physical scientists who work with these standards on a regular basis. Attached is the contents page for both databases and a listing of the primary fields found in the databases. We would be pleased to demonstrate the databases for you in person.

- 2. On page 5 of the letter, you state that on 12 occasions between May 2004 and May 2005, "laboratory personnel appear to have inadvertently commingled small quantities of a discarded chemical listed at 40 CFR 261.33(e) with larger quantities of waste solutions consisting of multiple pesticides listed at 40 CFR 261.33(e) and solvent." Specifically, you state that a 100-mL solutions of a single pesticide chemical (which was listed in 261.33(e)) were "used to fill a separate 20-mL vial with approximately 18 mL of solution; the 18-mL portion was further utilized in subsequent analyses. The remaining 82 mL of solution was subsequently poured in liquid form into a waste drum used for storing other discarded multi-pesticide solutions."
- a) How did USDA discover that the "commingling" occurred on these occasions? Is it USDA's contention that this "commingling" only occurred on these 12 occasions between May 2004 and May 2005? Did any commingling occur prior to May 2004?

GIPSA discovered the twelve instances of "commingling" when reviewing the databases and logbooks for the disposal of P-listed chemicals. Our records indicate that "commingling" only occurred on twelve occasions, and involved a total of only three different waste drums. The laboratory did not produce the 100-ml solutions until May 2004, therefore commingling did not occur prior to that time.

b) Please clarify the statement that "the remaining 82 mL of solution was poured in liquid form into a waste drum used for storing other discarded multi-pesticide solutions." Was this (82 mL of) solution in a vial/container when it was "poured"? Was the "waste drum" in question the same one that was eventually sent off-site, using the manifests dated June 18, 2002; November 15, 2004; and April 20, 2006? If not, when and how was this "waste drum" disposed?

The stock solutions were made in 100 mL volumetric flasks and 18 mL was used in preparing working solutions. The remaining 82 mL of solution was poured into a 4 liter waste bottle and when full the waste bottle was poured into the waste drums. The waste drums were disposed of on November 15, 2004, April 20, 2006, and July 5, 2006, as indicated on the manifests. All of these drums were disposed of off site.

c) You also state that when these incidents occurred during May 2004, June 2004, August 2004 and May 2005, the "total quantity of accumulated liquid waste that was involved in this commingling was unknown, but was likely in excess of one kg." However, I noticed that in the spreadsheet for those particular months, the generation rates of P-listed waste are below 1 kg. How do you explain this?

The actual amount of P-Listed waste was less than one kilogram, even though the total amount of all wastes in the drum (including other types of waste) may have been more than one kilogram.

- 3. The spreadsheet titled "Monthly Generation of P-Listed Waste from January 2001 November 2006" contains a detailed list of all P-listed wastes disposed of by USDA during that time frame. USDA claims that this spreadsheet supports its assertion that it never generated more than 1 kg of acute hazardous waste in any calendar month, nor did it ever accumulate greater than 1 kg of acute hazardous waste at any time.
- a) Are the wastes listed on this spreadsheet the same ones that were disposed of, as reported on the manifests dated June 18, 2002; November 15, 2004; and April 20, 2006?

Yes, although in most instances the waste not commingled. On June 18, 2002, a waste drum marked "Waste Toxic Liquid" was transported off site to be disposed of. While there were both non-P-listed waste and P-listed waste in the drum, all of the waste solutions were contained in individual sealed glass vials and also placed in heavy plastic bags, which contained them to prevent commingling. There was no indication of any broken vials or leaks from plastic bags, therefore no commingling of the wastes.

On November 15, 2004, six containers of waste were removed off site. These were: one drum containing "batteries wet filled with acid"; one lab-pack bucket containing "waste toxic solid"; one lab-pack bucket containing a can of "waste di-isopropyl ether"; one drum containing "waste ethanol"; one drum containing "waste flammable liquid"; and one drum containing "waste toxic liquid".

Small quantities of pesticide chemicals were commingled in only one drum (the drum labeled "waste flammable liquid"), which also contained other types of waste. With respect to the drum labeled "waste toxic liquid" there were both non-P-listed waste and P-listed waste in the drum. However, all waste solutions were contained in individual sealed glass vials and also placed in heavy plastic bags, which contained them to prevent commingling. There was no

indication of any broken vials or leaks from plastic bags, therefore no commingling of the wastes. Other than these two drums, none of the other containers held any pesticide material.

On April 20, 2006, seven containers of waste were removed off site. These were: one lab-pack bucket containing "universal waste (thermometers)"; one lab-pack bucket containing "waste hydrochloric acid"; one lab-pack bucket containing "waste toxic solid"; one drum containing "waste ethanol"; three drums containing "waste flammable liquid"; and one drum containing "waste toxic liquid".

Small quantities of pesticide chemicals were commingled in only one drum (in one of the drums labeled "waste flammable liquid"), which also contained other types of waste. With respect to the drum labeled "waste toxic liquid" there were both non-P-listed waste and P-listed waste in the drum. However, all waste solutions were contained in individual sealed glass vials and also placed in heavy plastic bags, which contained them to prevent commingling. There was no indication of any broken vials or leaks from plastic bags, therefore no commingling of the wastes. Other than these two drums, none of the other containers held any pesticide material.

b) In reviewing the list of neat substances and solutions, I noticed that there are a significant number of substances/solutions listed, for which the chemical constituents are not readily apparent. For example, at the top of the 2001 spreadsheet, it is fairly clear that aldicarb sulfone, methiocarb and heptachlor (neat substances #1 through #4) are P203, P199 and P059, respectively. However, for chemicals such as "PDP ISTD" (solution #1) or "rice mult-res 50 loq" (solution #2), the solution name/description given is unclear as to which, if any, hazardous waste codes might apply. Please provide the chemical constituents for these solutions and their corresponding RCRA hazardous waste codes (if any).

All of these solutions were multi-pesticide solutions containing at least two or more different pesticides (and in many instances, as many as 70 to 80 different pesticides). By definition, these solutions would not be deemed to be P-listed waste but would carry the D001 listing code of the solvent. The laboratory can provide the lengthy lists of constituents if needed.

c) The spreadsheet (in the footnotes) defines a "neat substance" as a substance that is "free from impurities, admixture, or dilution." Are these "neat substances" therefore disposed of in a solid (as opposed to liquid) form? Does the reported weight of p-waste disposed include the weight of any vials or containers that store this waste? If not, what is the approximate weight of such an empty vial?

The "neat substances" are in crystalline or liquid form at room temperature. The reported weight of these neat standards is the actual weight of the chemical compound itself, and does not include the weight of the vial or container. EPA regulatory guidance makes it clear that the weight of the container is not counted when making determinations of generator status. 45 FR 78524, 78527 (November 25, 1980). The weight of an empty vial depends on the manufacturer, and can weigh from 6 to 25 grams.

d) In the footnotes, USDA states that for the p-listed wastes, "a solution is 10 mL or 0.008 kg unless noted otherwise." In addition, a 18 mL and a 82 mL solution weighs 0.0144 kg and 0.0656 kg, respectively. How did USDA determine these conversion factors? Do these weights include the weight of the vial (or other container) that stores this waste? If not, what is the approximate weight of such an empty vial?

The specific gravity of the solvents used, methanol and cyclohexane:ethyl acetate (1:1, v:v), is 0.8 and the specific gravity was used to calculate the weight of the waste solution. Therefore the weight of the 18 mL solution is 18 mL \times 0.8 g/mL = 14.4 g or 0.0144 kg. The weight of the vials was not included in calculating the total weight of the hazardous waste, in accordance with EPA regulatory guidance. The weight of the 20mL vials used to contain 10 mL or 18 mL solutions is 19 grams (0.019 kg). The volumetric flasks in which the 100 mL solutions are made are not discarded as waste.

e) Are all solutions (P-listed wastes and non-P-listed wastes) made using methanol? Can you provide EPA with a copy of the MSDS (Material Safety Data Sheet) for the methanol that is used?

No. Solutions were made using either methanol or cyclohexane:ethyl acetate (1:1, v:v). MSDS's are attached.

f) Are the <u>non-P-listed</u> wastes hazardous or non-hazardous? Please provide the RCRA hazardous waste codes, if applicable.

The non-P-listed waste solutions are classified as hazardous and the codes are D001 and F003.

4. For the <u>non-</u>P-listed waste solutions on these spreadsheets, are they also 10 mL or 0.008 kg) each? If not, what are their volumes/weights? Are they disposed of in the same drum as the P-listed wastes that were shipped off-site on June 18, 2002; November 15, 2004; and April 20, 2006?

The vast majority of the non-P-listed waste solutions were 0.008 kg each (10mL). Yes, they were disposed of in the same shipment of drums. See response to 3a.

a) If so, would it be accurate to say that in 2001, USDA generated approximately 0.77 kg of pesticides (i.e., 97 "solutions" x 0.008 kg/solution)?

No, this is not accurate. A more accurate statement would be that GIPSA generated 0.77 kg of pesticide waste solutions, of which only a small number were P-Listed. The actual amount of a "pesticide compound" dissolved in a solvent is at the nano-gram level. Concentrations are 1 mg/mL or less.

b) Would it be accurate to say that between June 18, 2002 and November 15, 2004, USDA generated approximately 2.84 kg of pesticides (since approximately 355 "solutions" (at

(from spreadsheet)

0.008 kg each) were disposed of during that time period)? If so, how does USDA account for the remainder of the 250 pounds that was shipped off on November 15, 2004?

This is not accurate. It's more accurate to say the waste contained nano-grams of pesticide dissolved in micro-liters of solvent. The drum that contained these pesticides also contained organic solvents, water, and miscellaneous liquid wastes generated in the laboratory. The preponderance of the drum is flammable liquid with a hazardous waste code of D001.

5. I compared the list of P-listed wastes listed on the spreadsheet against the P-listed wastes that were reported on the manifests dated June 18, 2002; November 15, 2004; and April 20, 2006. If I understand USDA's processes correctly, all P-listed waste codes on the spreadsheet that were disposed prior to June 18, 2002 should appear on the June 18, 2002 manifest. Similarly, all P-listed waste codes on the spreadsheet that were disposed between June 18, 2002 and November 15, 2004 should appear on the November 15, 2004 manifest; and all P-listed wastes on the spreadsheet that were disposed between November 15, 2004 and April 20, 2006 should be listed on the April 20, 2006 manifest. However, I noticed the following discrepancies. Can USDA explain the following?

P-listed wastes disposed 1/1/01-6/18/02	P-listed wastes on 6/18/02 n	nanifest
(from spreadsheet)		
P004 (5/20/02)	P004	
?	P020	
P037 (11/6/01)	?	
P039 (5/20/02)	?	
P044 (1/8/02)	P044	
P050 (1/8/02 – twice)	P050	
P051 (1/8/02)	P051	
P059 (6/22/01, 11/6/01)	P059	
?	P060	
P066 (5/20/02)	P066	
P070 (3/28/01, 5/20/02)	P070	
P071 (11/6/01)	? * - 1000	
P089 (11/6/01)	P089	
P094 (11/6/01)	P094	
?	P123	
P127 (3/15/01, 11/6/01)	P127	
P194 (1/8/02)	?	
P199 (3/15/01)	P199	
?	P201	
P203 (3/15/01, 3/27/01, 3/30/01, 10/5/01)	P203	
P-listed wastes disposed 6/18/02-11/15/04	P-listed wastes on 11/15/04	manifest

?	P004
P037 (4/2/04, 11/10/04)	?
P039 (5/20/03, 11/8/04, 11/10/04 – twice)	?
P044 (5/20/03, 11/10/04)	?
P050 (4/2/04 – three times, 5/6/04)	P050
P051 (11/10/04)	P051
P066 (4/2/04 – three times, 5/26/04, 8/17/04,	?
11/10/04)	
P070 (4/2/04 – three times, 6/1/04, 8/18/04)	?
P071 (11/10/04)	P071
P089 (5/19/03 – three times, 4/2/04, 11/10/04)	P089
P094 (4/2/04)	?
P127 (4/2/04 – three times, 6/1/04, 8/18/04, 11/10/04)	?
P194 (4/2/04 – twice, 5/28/04, 8/17/04, 11/10/04)	?
P203 (9/19/02, 3/27/03, 8/1/03, 4/2/04 – three	?
times, 6/1/04, 8/17/04 - twice)	

P-listed wastes disposed 11/15/04-4/20/06	P-listed wastes on 4/20/06 manifest
(from spreadsheet)	
P004 (3/17/05 – three times, 9/29/05, 11/2/05)	P004
P037 (11/2/05)	?
P039 (3/17/05, 11/2/05)	?
P044 (11/2/05)	?
P050 (11/2/05)	P050
P051 (3/17/05, 11/2/05)	P051
P071 (9/29/05, 11/2/05)	P071
P089 (9/29/05, 11/2/05)	P089
P094 (3/17/05, 9/29/05, 11/2/05)	?
P127 (11/2/05)	?
P203 (3/17/05 – twice, 5/2/05)	?

The spreadsheet accurately reflects P-listed chemicals disposed of on the dates listed. GIPSA provided the hauler a list of pesticides that could have been P-coded wastes generated by the laboratory during this period. These discrepancies between the spreadsheets and the manifests appear to be an oversight.

6. If USDA's assertion that it never generated more than 1 kg of acute hazardous waste in any calendar month and never accumulated more than 1 kg of acute hazardous waste at any time, why did USDA report itself to the Missouri Department of Natural Resources as being a Large Quantity Generator (on March 11, 2003)?

A mistake was made in the way the form was completed. It should be noted, though, that the relevant section of the Missouri DNR notification form (Section VII) did not provide a box for "acute hazardous waste". Also, the form in question was somewhat confusing in that it did not actually refer to Large Quantity Generators and Small Quantity Generators. In contrast,

the current DNR notification form does specifically abbreviate these terms next to the boxes to be checked in Section VII.

A corrected form will be submitted shortly to DNR indicating GIPSA's correct status as a Small Quantity Generator.

P.O. BOX 19276

· SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

Form LPC 62 8/81

IL532-0610

FOR SHIPMENT OF MAZAROODS AND SPECIAL WASTE

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proper shipping name and are classified, packed, marked, and according to applicable international and national government	regulations.		•			
If i am a large quantity generator, I certify that i have a progi be economically practicable and that I have selected the prac and future threat to human health and the environment; OR, i	dicable method of treatment storage or	disposal cur	rentiv avails	ahla to ma whi	ch minimizee the or	ocont.
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Stratospheric Ozone – Class I and II Controlled Substance Destruction Verification Notification (40 CFR 82.13(k) and 82.24(e))

Pursuant to 40 CFR 82.13(k) and 40 CFR 82.24(e), Onyx Environmental Services – Sauget Facility is required to provide a verification that Class I and/or Class II Controlled Substances will be used in processes that result in their complete destruction.

Any Class I and/or Class II Controlled Substances shipped on the attached manifest will be completely destroyed by:

Onyx Environmental Services – Sauget Facility 7 Mobile Avenue Sauget, IL 62201

Any Class I and/or Class II Controlled Substances shipped on the attached manifest will be completely destroyed no later than one year after the receipt of the Class I and/or Class II Controlled Substance(s) at Onyx Environmental Services – Sauget Facility.

Signature: Christie Mares

Date: 4 8 0 6

ETERTIFICIALIZATION POLICIONAL PROGRAMMENT DIVIDION OF LAND POLICION CONTROL JIAIE UP ILLINUIS FOR SHIPMENT OF HAZARDOUS P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 AND SPECIAL WASTE State Form LPC 62 8/81 IL532-0610 PLEASE TYPE EPA Form 8700-22 (Rev. 6-89) (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039 Manifest 1. Generator's US EPA ID No. Information in the shaded areas is not required by Federal law, but is required by Illinois law. **UNIFORM HAZARDOUS** Document No. **WASTE MANIFEST** MOD985796762 A. Illinois Manifest Document Number 3. Generator's Name and Mailing Address Location If Different 3 PEE PAID UEDEA FEDERAL GRAIN INSPECTION Q 10383 E. AMBASSADOR ST B. Generator's IL (816) 891-0431 KAMBAS CITY , MO 64153 1 ID Number Ξ 4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* Transporter's US EPA ID Number H-2052/KSSPN963 5. Transporter 1 Company Name **ID Number** KSD985016047 (800) 229-5252 HAZ-MAT RESPONSE, INC. D. Transporter's Phone (= US EPA ID Number A E. Transporter's 7. Transporter 2 Company Name 1940609181-04 ID Number NTD08063136 ONVX Envisormental F. Transporter's Phone (618) 271-2804 3 US EPA ID Number 9. Designated Facility Name and Site Address 10. G. Facility's IL ONYX ENVIRONMENTAL SERVICES LLC ID Number | 1 # 7 MOBILE AVENUE 1613 11 2 1 0 0 0 (618) 271-2804 ILD098642424 H. Facility's Phone (SAUGET, IL 62201-1069 12. Containers 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 13. Lilleligency Total Unit Waste No. Туре Quantity WtVo EPA HW Number G WASTE METHYL BROMIDE 2.3, UN1062 Ε DOT-611043 POISION INHALATION HAZARD ZONE C N P DF E EPA HW Number b. R A T EPA HW Number n C. <u>-</u> R 21/1/62 **EPA HW Number** d. 0987 K. Handling Codes for Wastes Listed Above in Item #14 J. Additional Description for Materials Listed Above and 11a) OSJH2, TWI 587 833 11b) 100 110) 114) National 15. Special Handling Instructions and Additional Information If unable to deliver, return to generator. In case of emergency contact 800-229-5252. Sequence # <u>9732</u> MO Trans TD: H-2146 P206976IL

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, pecked, marked, and labeled, and are in all respects in proper condition for transport by highway č according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date 1 Printed/Typed Name Month Day Year Signature 474-8807 NACA C BICSAK 09 030 17. Transporter 1 Acknowledgement of Receipt of Materials Date RANSPORTER Year Printed/Typed Name Signature Month Day 18. Transporter 2 Acknowledgement of Receipt of Materials Date Printed/Typed Name Month Day Year Signature

Date 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Month Day Year Printed/Typed Name Signature 09 0400 JONES This Agency is authorized to require, pursuant to litinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1024, that this information be submitted to the Agent this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation Faisification of this information may result in per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

/ark

19. Discrepancy Indication Space

Droda

29-3047

420-20

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

P.O. Box 13087

Austin, Texas 78711-3087



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form approved. OMB No. 2050-0039, expires 09/30/95

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STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL QUALITY Hazardous Waste Program P.O. Box 176 Jefferson City, Missouri 65102 573-751-3176

HAZARDOUS WASTE MANIFEST

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHIPMENTS.

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	EMERGENCY RESPONSE	U.S. COAST GUARD 1-800-424-8802	CHEM TREC 1-800-424-9303	DEPT OF NATURAL RESOURCES 573-634-2436

UNIFORM HAZARDOUS WASTE MANIFEST Generator's Name and Mailing Address USDA FEDERAL GRAIN INSPECTION SVC			24-8802	1-800-424-9	300	RESOURCES 573-634-2436
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DIVISION OF ENVIRONMENTAL QUALITY

Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

HAZARDOUS WASTE MANIFEST

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DEPT. OF NATURAL RESOURCES 573-634-2436 EMERGENCY RESPONSE U.S. COAST GUARD 1-800-424-8802 CHEM TREC 1-800-424-9300

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TOF NATURAL RESOURCES

ADIVISION OF ENVIRONMENTAL QUALITY

Hazardous Waste Program

P.O. Box 176. Jefferson City, Missouri 65102

573-751-3176

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Kansas City MO 64129 M. O. D. 9, 8, 1, 1, 2	3 3 9 1					
US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))	12. Containe	rs	13. Total	14. Unit		
	Number	Турв	Quantity	Wt/Vot.		
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[00-2631]		P M	1 8 7 F	L P		
RQ, WASTE ETHANOL, 3, UN1170, II			9 9			
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[04-0603]	1.20	1	- 10 Sept. 11. 14			
WASTE TOXIC SOLID, ORGANIC, N.O.S., (ETHIDIUM BROMIDE), 6.1, UN2810, II			¥			
BROMIDE), 6.1, UN2810, II		6	1			
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	-FRG#15	3	The second secon		Total a	ر در مهستورین چان مزرسه فر
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T.OF.NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

HAZARDOUS WASTE MANIFEST

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS. INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET

DEPT. OF NATURAL EMERGENCY U.S. COAST GUARD 1-800-424-8802 CHEM TREC 1-800-424-9300 RESOURCES 573-634-2438

WASTE MANIFEST	1. Generator's US EPA ID No. M, O, D, 9, 8, 5, 7, 9, 6	7 6 2 1 8	14 7 2	Page C		ation in the shad ired by State lev	
Generator's Name and Malling Address USDA FEDERAL GRAIN INSP 10383 NORTH AMBASSADOR KANSAS CITY NO 64153-1: Generator's Phone (816) 891-0431 Transporter 1 Company Name	DRIVE						
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Waste Express Inc. Transporter 2 Company Name	8. US EPA ID NU	8 1 1 1 2 3 3	3, 9, 1				HE
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Designated Facility Name and Site Address	10. US EPAID N	IUMBER					
Waste Express, Inc. 6300 Stadium Drive Kansas City, MO 64129	IM. O. D. 9	8, 1, 1, 2, 3, 3	3, 9, 4	, . .			
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SIATE OF ILLINOIS

P.O. BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

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UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA II	D.No. 762	Manifest Document No.		age 1	required l	by Federa N.	al law, but	areas is not is required by
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This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Faisification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

DIVISION OF ENVIRONMENTAL QUALITY Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

HAZARDOUS WASTE MANIFEST

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET

DEPT OF NATURAL EMERGENCY RESPONSE U.S. COAST GUARD 1-800-424-5802 CHEM TREC 1-800-424-9300 RESOURCES 573-634-2436

Plea	se print or type (Form designated for use on elite (12-pitch)			Manifest			d OMB No. 2050-0039.
1	UNIFORM HAZARDOUS	1. Generator's US EPA ID No.		Document No.	Page (Information in is required by	the shaded areas
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T OF NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

HAZARDOUS WASTE MANIFEST

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENT INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEE

Plea	use print or type (Form designated for use on elite (12-pitch) type	rwriter.)			Form Approved OMB No. 2050-0)39.
1	UNIFORM HAZARDOUS	1. Generator's US EPA ID No.	Manifest Document No.	2. Page () 1	Information in the shaded areas	
	WASTE MANIFEST 3. Generator's Name and Malling Address	<i>е</i> превегеете	18 8 6 1	of 01	is required by State law.	: (C-9)
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	16 GENERATOR'S CERTIFICATION: I hereby declare that the cont	ents of this consignment ar	e fully and	accurately d	lescribe	d above by		
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OR	16. Transporter 2 Acknowledgement of Receipt of Materials							Date
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FACILITY

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Date

Month Day Year

Printed Typed Name

Signature

Si

STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES

EPA FORM 8700-22 (REV. 11/05) MDNR-HWG 10

DIVISION OF ENVIRONMENTAL QUALITY Hazardous Waste Program P.O. Box 176 Jefferson City, Missouri 65102 573-751-3176

HAZARDOUS WASTE MANIFEST

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS.
INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET

IN CASE OF RELEASE CONTACT U.S. COAST GUARD AND MONR U.S. COAST GUARD 1-800-424-8802 DEPT. OF NATURAL RESOURCES 573-634-2436

Form Approved. OMB No 2050-0039 Please print or type (Form designed for use on elite (12-pitch) typewriter.) 2. Page UI 1. Generator's US EPA ID No. UNIFORM HAZARDOUS Document No 01 M O D 9 8 5 7 9 6 7 6 WASTE MANIFEST 3. Generator's Name and Mailing Address USDA FEDERAL GRAIN INSPECTION SVC 10383 NORTH AMBASSADOR DRIVE KANSAS CITY MO 64153-1394 4. Generator's Phone (816) 891-0431 0, 1, 4, 6 9 O Q 5 B. G.S.I. (Gen. Site Address) C. MO. Trans. ID H-239D/13706MO 8 US FPA ID Numbe. 5. Transporter t Company Name M Q D 9 8 1, 1, 2 3 3 Waste Express Inc. R US FPA ID Number 7. Transporter 2 Company Name E. MO. Trans. ID F. Transporter's Phone 1 G. State Facility's ID 10 US EPA ID Number 9. Designated Facility Name and Site Address R R O 1 3 3 OPY Waste Express, Inc. 6300 Stadium Drive H. Facility's Phone. (816) 924--5884 IM O. D. 9, 8, 1, 1, 2, 3 9 Kansas City, MO 64129 FINAL 11. US DOT Description (Including Proper Shipping Name, Hazard Class, tD Number and Packing Group (if any)) 12. Containers I. Waste No. Testal Unit Туре Number Wt/Vol Quantity EPA WASTE CODE RQ, WASTE ETHANOL 3, UN1170, II D | O | O | STATE ON f 03-0983 1 G EPA WASTE CODE RO.WASTE FLAMMABLE LIQID N.O.S. (METHANOL, ISOPROPANOL)3, UN1993, II N DIDIDI E R ð A EPA WASTE CODE WASTE FLAMMABLE LIQUID N.O.S. (CYCLOHEXANE DICHLOROMETHANE)3, UN1993, II D 0 0 1 0 R 00-2631 PA WASTE CODE WASTE TOXIC SOLID. ORGANIC N.O.S. (ETHIDIUM BROMIDE)6.1, UN2810, II STATE 03-0104 1 659 J. Additional Discriptions for Materials Listed Above K 175 1 () EOOF h F002 F003 12. d. district the same of 15. Special Handling Instructions and Additional Information If unable to deliver, return to Generator.
In case of emergency, call 800-229-5252.
14A-ERG#127 11B-ERG#128 11C-ERG#128 11D-ERG#153 18.QENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford. Month Day Signature Printed/Typed Name ONAW 151CSAK 17. Transporter 1. Acknowledgement of Receipt of Materials Date Signature Printed/Typed Name ANSPORT 18, Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Month Day 꾶 19. Discrepancy Indication Space MUST BE 20 Designated Facility Owner or Operator: Certification of redulpt of hazardous materials covered by this manifest except as noted in Item 19. Signature Month Day Year Printed/Typed Name 104120

PREVIOUS EDITIONS ARE OBSOLETE

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

HAZARDOUS WASTE MANIFEST

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DEPT OF NATURAL U.S. COAST GUARD 1-800-424-8802 IN CASE OF RELEASE CONTACT U.S. COAST GUARD AND MONR RESOURCES 573-634-2436

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Special Handling Instructions and Additional Information If unable to deliver, return to Generator. In case of emergency, call 800-229-5252. GENERATOR'S CERTIFICATION: Interestly declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labelle and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations, and are classified, packed, marked, and labelle and the international and respects in proper condition to transport and the entire to degree I have determined to be accordinately practicable and the arrivorment. OR, if I am a sm			1	1.		1	STATE
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P.O. BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL53

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FOR SHIPMENT OF MAZARDOBS

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	proper shipping name and are classified, packed, marked, and lab according to applicable international and national government regulf! I am a large quantity generator, I certify that I have a program be economically practicable and that I have selected the practical and future threat to human health and the environment; OR, if I a select the best waste management method that is available to me	ulations. in place ble meth am a sma	to reduce the volume an od of treatment, storage, ill quantity generator, I ha	d toxicity of v	waste ge	enerated to the dec available to me wh	ich min	imizes the present ste generation and Date		
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DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102

EMERGENCY U

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CHEM TREC 1-800-424-9300 DEPT. OF NATURAL RESOURCES 573-634-2436

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BEARTMENT OF NATURAL RESOURCES DIVISION OF ENVIRONMENTAL QUALITY

DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

HAZARDOUS WASTE MANIFEST

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS. INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET.

EMERGENCY RESPONSE	U.S. COAST GUARD 1-800-424-8802	CHEM TREC 1-800-424-9300	DEPT. OF NATURAL RESOURCES 573-634-2438

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16. GENERATOR'S CERTIFICATION: I hereby deciare that the and are in all respects in proper condition for transport by	ne contents of this consignment are fully and a highway according to applicable international	and national government re	gulations and appli	cable state regulatio	ns.
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have selected the practicable method of treatment, store quantity generator, I have made a good faith effort to mini	une or dienosal currently available to me whic	ch minimizes the present en	d future threat to h	iuman health and th	e environment; OR, If I am a smal
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HAZARDOUS WASTE MANIFEST

DEPAREMENT OF NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL QUALITY

Hazardous Waste Program

P.O. Box 176 Jefferson City, Missouri 65102

573-751-3176

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THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS. INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET.

CHEM TREC 1-800-424-9300 EMERGENCY RESPONSE U.S. COAST GUARD 1-800-424-8802

DEPT. OF NATURAL RESOURCES 573-634-2438

UNIFORM HAZARDOUS WASTE MANIFEST M (0 D D 9 8 5 5	No. Manife 7,9,6,7,6,2 1,5,8		formation in the shaded areas required by State law.
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16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignme and are in all respects in proper condition for transport by highway according to applicate the area at large quantity generator, I certify that I have a program in place to reduce the	de international and national governme	int regulations and applicable state	regulations.
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STATE OF MISEOURI

DEPARTMENT OF NATURAL RESOURCES DIVISION OF ENVIRONMENTAL QUALITY

Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

HAZARDOUS WASTE MANIFEST

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16. GENERATOR'S CERTIFICATION: I hereby declare the and are in all respects in proper condition for transport if I am a large quantity generator, I certify that I have have selected the practicable method of treatment, sto quantity generator, I have made a good faith effort to m	by highway according to applicable internation a program in place to reduce the volume and prage, or disposal currently available to me with inimize my waste generation and select the be	al and national government reg I toxicity of waste generated to high minimizes the present and est waste management method	ulations and ap the degree I ha I future threat to	plicable state regula ave determined to t o human health and	itions. De economic	cally practicable and the ment; OR, If I am a sm
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Printed/Typed Name B124	Signatur	TO BUT				Month Day Year
18. Transporter 2 Acknowledgement of Receipt of Materia						Date
Printed/Typed Name	Signatu	re				Month Day Yea
19. Discrepancy Indication Space						
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20. Designated Facility Owner or Operator: Certification of			ltem 19.			Date
Printed/Typed Name	Signat	lure				Month Day Yes
A FORM 8700-22 (REV. 9-96) MDNR-HWG 10	PREVIOUS EDITIONS ARE	OBSOLETE		E	CONTAIN	S 50% RECYCLED PAPER W S NOT LESS THAN 20% I ER WASTE.

STATE OF MISSOUR

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

HAZARDOUS WASTE MANIFEST

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS.
INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET

STRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHE

EMERGENCY
U.S. COAST GUARD
CHEM TREC
RESPONSE
1-800-424-8302
1-800-424-9302
DEPT. OF NATURAL
RESPONSE
1-800-424-9302
1-800-424-9302

Form Approved OMB No. 2050-0039. Expires 9-30-99 Please print or type (Form designed for use on elite (12-pitch) typewriter.) 1. Generator's US EPA ID No. Information in the shaded areas Manifest UNIFORM HAZARDOUS Document No. is required by State law. **WASTE MANIFEST** A: Missouri Manifest Document Number 3. Generator's Name and Mailing Addres USDA FEDERAL GRAIN INSPECTION SUC 10383 NORTH IMMASSADOR DRIVE 0 1 14 16 19 5 0.0.015 B. G.S.I. (Gen. Site Address) 4. Generator's Phone (1) 1 4 - 6 12 5 5 Transporter 1 Company Name A A 6. US EPA ID Numbe C. MO. Trans. ID ... 2052/25680KS D. Transporter's Phone (800) 779-5332 HAZ-MAT RESTAINSE \$5 16 18 18 10 10 8. US EPA ID Number 7. Transporter 2 Company Name F. MO. Trans. ID F. Transporter's Phone G. State Facility's ID 10. US EPA ID Numb 9. Designated Facility Name and Site Address RR0133 HAJ-MAT RESOURCE DESCRIBER (DE. H. Facility's Phone 6300 Stagath brave 4 15 15 15 15 15 18161-924-5884 RECORDS CALCULATED THE SET OF 11. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any), 12 Contain 14. Unit Wt/Vol 13. I. Waste No. Number FPA WASTE CODE 10 14 17 WASTE TOXIC (10000.080ANIC, NOSTLAB PACK) STATE G EPA WASTE CODE Ε b. N WASTE FLAMMABLE LIGHTD. NOSTETHAMOLIWATER! Ε STATE 3.0.UN1993, PGII R EPA WASTE CODE A WASTE FLAMMABLE LIGHTD. NOS (SETHANDL. ISOPPOPANOS) 2.0.UN1993.PGIT 0 R EPA WASTE CODE d. BATTERIES WET FILLED WITH ACID UNIVERSAL WASTE J. Additional Conceptions for Materials Listed Above VOLING CODE (FACILITY USE ONLY) K COMMENTS A STATE OF THE PROPERTY OF THE b. O POSSESSE OF THE C. d (1) 4. 型线情况此 d 15. Special Handling Instructions and Additional Information a unable to accept the return to being the 14 case of emergency, call 800-229-5252. 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford. Day Signature Year Printed/Typed Name Month 475 KONALI DICSAK 17. Transporter 1 Acknowledgement of Receipt of Materials Date Signature Month Day Yea Printed/Typed Name 18. Transporter 2 Acknowledgement of Receipt of Materials Date Signature Month Day Printed/Typed Name 19. Discrepancy Indication Space 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Date Day Signature Printed/Typed Name 1

EPA FORM 8700-22 (REV. 11/05) MDNR-HWG 10

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

HAZARDOUS WASTE MANIFEST

THIS OOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS. INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET.

IN CASE OF RELEASE CONTACT U.S. COAST GUARD AND MONR

U.S. COAST GUARD 1-800-424-8802

DEPT. OF NATURAL RESOURCES 573-634-2436

print or type (Form designed for use on elite (12-pitch) typewriter.)		Mant	la Pere			ved. OMB No 2050-003		
WASTE MANIFEST M O D 9 8 5 7 9 6 7 6 2 12 14 5 2				2. Page 1 Information in the shaded areas is required by State law.				
Generator's Name and Mailing Address USDA FEDERAL GRAIN INSPECTION SVC 10383 NORTH AMBASSADOR DRIVE KANSAS CITY MO 64153-1394 Generator's Phore 816) 891-0431				A. Missouri Manifest Document Number 0 1 A 6 9 5 0 0 0 1 6 B G.S.L.(Gen. Site Address)				
Transporter 1 Company Name Waste Express Inc. 6:US EPA ID Number M O D 9 8 1 1 2 3 3 9 1				C. MO. Trans. ID H-2390 3100 MC. D. Transporter's Phone (816) 924-5884				
7. Transporter 2 Company Name 8. US EPA ID Number				E. MO. Trans. ID				
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Waste Express, Inc. 6300 Stadium Drive			1	0 1 3 3	4	3 A		
	M O D 9 8 1 1 2	3 3 9 1	1	(816)	924-5	884		
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RO, WASTE FLAMMABLE LIQUID, N.O.S. (ME ISOPROPANOL), 3, UN1993, II	ETHANOL,		1	Coanny	VVV VOI.	EPA WASTE CODE D 0 0 1		
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> Special Handling Instructions and Additional Information						52		
5. Special Handling Instructions and Additional Information If unable to deliver, return to In case of emergency, call 800- 11A-ERG#128			21 3 10	r kirr		#		
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PREVIOUS EDITIONS ARE OBSOLETE



Material Safety Data Sheets

Division of Facilities Services

DOD Hazardous Material Information (ANSI Format) For Cornell University Convenience Only

METHANOL

Section 1 - Product and Company Identification	Section 9 - Physical & Chemical Properties			
Section 2 - Compositon/Information on Ingredients	Section 10 - Stability & Reactivity Data			
Section 3 - Hazards Identification Including Emergency Overview	Section 11 - Toxicological Information			
Section 4 - First Aid Measures	Section 12 - Ecological Information			
Section 5 - Fire Fighting Measures	Section 13 - Disposal Considerations			
Section 6 - Accidental Release Measures	Section 14 - MSDS Transport Information			
Section 7 - Handling and Storage	Section 15 - Regulatory Information			
Section 8 - Exposure Controls & Personal Protection	Section 16 - Other Information			

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Section 1 - Product and Company Identification METHANOL

Product Identification: METHANOL

Date of MSDS: 01/01/1987 Technical Review Date: 05/18/1999

FSC: 6810 NIIN: 00-275-6010

Submitter: D DG Status Code: C

MFN: 01 Article: N Kit Part: N

Manufacturer's Information

Manufacturer's Name: AIR PRODUCT AND CHEMICALS, INC

Manufacturer's Address1: 7201 HAMILTON BLVD

Manufacturer's Address2: ALLENTOWN, PA 18195-1501

Manufacturer's Country: US General Information Telephone: Emergency Telephone: 800-523-9374 Emergency Telephone: 800-523-9374 MSDS Preparer's Name: N/P

Proprietary: N Reviewed: Y Published: Y CAGE: 00742

Special Project Code: N

Item Description

Item Name: METHANOL, TECHNICAL

Item Manager: S9G

Specification Number: O-M-232 Type/Grade/Class: GRADE A

Unit of Issue: CN Quantitative Expression: 00000000005GL

Unit of Issue Quantity: 1 Type of Container: CAN

Contractor Information

Contractor's Name: AIR PRODUCTS AND CHEMICALS INC

Contractor's Address1: 7201 HAMILTON BLVD Contractor's Address2: ALLENTOWN, PA 18195-1501 Contractor's Telephone: 800-345-3148/610-481-4911

Contractor's CAGE: 00742

Section 2 - Compositon/Information on Ingredients METHANOL

Ingredient Name: METHYL ALCOHOL (METHANOL) (SARA III)

Ingredient CAS Number: 67-56-1 Ingredient CAS Code: M

RTECS Number: PC1400000 RTECS Code: M

=WT: =WT Code:

=Volume: =Volume Code:

>WT: >WT Code:

>Volume: >Volume Code:

<WT: <WT Code:

<Volume: <Volume Code:

% Low WT: % Low WT Code:

% High WT: % High WT Code:

% Low Volume: % Low Volume Code: % High Volume: % High Volume Code:

% Text: 99.8

% Environmental Weight: Other REC Limits: N/P

OSHA PEL: S.200PPM/250STEL OSHA PEL Code: M

OSHA STEL: OSHA STEL Code:

ACGIH TLV: S,200PPM/250STEL; 93 ACGIH TLV Code: M

ACGIH STEL: N/P ACGIH STEL Code: EPA Reporting Quantity: 5000 LBS DOT Reporting Quantity: 5000 LBS

Ozone Depleting Chemical: N

Section 3 - Hazards Identification, Including Emergency Overview METHANOL

Health Hazards Acute & Chronic: N/P

Signs & Symptoms of Overexposure:

EYES:BURNS VISION FAILURE.SKIN:IRRITANT,DEFATTING AGENT.INHAL:IRRIT SKIN,MUCOUS,RESP SYS,HEADACHE

Medical Conditions Aggravated by Exposure:

N/P

LD50 LC50 Mixture: N/P Route of Entry Indicators:

Inhalation: N/P

Skin: N/P

Ingestion: N/P

Carcenogenicity Indicators

NTP: N/P IARC: N/P OSHA: N/P

Carcinogenicity Explanation: N/P

Section 4 - First Aid Measures METHANOL

First Aid:

INHALE:REMOVE TO FRESH AIR, GIVE CPR/O*2 IF NEED; EYES/SKIN:FLUSH W LG AMTS H*20 FOR 15 MIN; INGEST:RINSE MOUTH; GET MEDICAL ATTENTION FOR EYES, BREATHING DIFFICULTY, OR OTHER SYMPTOMS OF OVEREXPOSURE.

Section 5 - Fire Fighting Measures METHANOL

Fire Fighting Procedures:

USE NIOSH APPROVED SCBA WITH FULL PROTECTION FOR FIREFIGHTNG Unusual Fire or Explosion Hazard:

VAPORS ARE TOXIC, EXPLOSIVELY IGNITED WITHIN EXPLOSIVE LIMITS

Extinguishing Media:

CO*2,DRY CHEMICAL,WATER FOG

Flash Point: Flash Point Text: 53.6/12C (C.C.)

Autoignition Temperature:

Autoignition Temperature Text: 725F

Lower Limit(s): 6.7 Upper Limit(s): 36.0

Section 6 - Accidental Release Measures METHANOL

Spill Release Procedures:

USE PERSONAL PROTECTIVE EQUIPMENT.ELIMINATE SOURCE OF IGNITION.COVER THE MATERIAL WITH ALCOHOL FOAM.PUMP LIQUID INTO DRUM.FOR INFO,NOTIFY THE AUTHORITIES IF NECESSARY.

Section 7 - Handling and Storage METHANOL

Handling	and	Storage	Pr	ecauti	ons
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Other Precautions:

Section 8 - Exposure Controls & Personal Protection METHANOL

Repiratory Protection:

USE NIOSH APPROVED RESPIRATOR FOR METHANOL OR SCBA.

Ventilation:

PROVIDE MECHAN(GEN/LOCAL EXHAUST)VENT TO MAINTN <TLV

Protective Gloves:

PV/RUBBER

Eye Protection: GOGGLES/FACE SHIELD

Other Protective Equipment: FULL PROTECTIVE CLOTHING, SAFETY SHOWER, EYE

WASH STATION

Work Hygenic Practices: N/P

Supplemental Health & Safety Information: MAY 1,1985 IS DATED ON MSDS.

Section 9 - Physical & Chemical Properties METHANOL

HCC: F2

NRC/State License Number: Net Property Weight for Ammo:

Boiling Point: Boiling Point Text: 148.5/64.7C

Melting/Freezing Point: Melting/Freezing Text: N/A Decomposition Point: Decomposition Text: N/A

Vapor Pressure: 100 Vapor Density: 1.11

Percent Volatile Organic Content:

Specific Gravity: 0.590

Volatile Organic Content Pounds per Gallon:

pH: N/P

Volatile Organic Content Grams per Liter:

Viscosity: N/P

Evaporation Weight and Reference: 12 (BUT ACETAT=1)

Solubility in Water: MISCIBLE

Appearance and Odor: CLEAR, COLORLESS, FLAMMABLE, MOBILE, HIGHLY POLAR

LIQ.

Percent Volatiles by Volume: 100

Corrosion Rate: N/P

Section 10 - Stability & Reactivity Data METHANOL

Stability Indicator: YES

Materials to Avoid:

STRONG OXIDIZING MATERIALS, CHROMIC ANHYDRIDES, PER CHLORIC AC

Stability Condition to Avoid:

SPARKS, FLAMES

Hazardous Decomposition Products: FORMALDEHYDE, CO, FORMIC ACID

Hazardous Polymerization Indicator: NO

Conditions to Avoid Polymerization:

NONE SPECIFIED

Section 11 - Toxicological Information METHANOL

Toxicological Information:

N/P

Section 12 - Ecological Information METHANOL

Ecological Information:

N/P

Section 13 - Disposal Considerations METHANOL

Waste Disposal Methods:

CONSULT LOCAL AUTHORITIES.INCINERATION OR DISPOSAL MUST BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

Section 14 - MSDS Transport Information METHANOL

Transport Information:

N/P

Section 15 - Regulatory Information METHANOL

SARA Title III Information:

N/P

Federal Regulatory Information:

N/P

State Regulatory Information:

N/P

Section 16 - Other Information METHANOL

Other Information:

N/P

HMIS Transportation Information

Product Identification: METHANOL Transporation ID Number: 65164 Responsible Party CAGE: 00742 Date MSDS Prepared: 01/01/1987 Date MSDS Reviewed: 02/29/1996 MFN: 02/29/1996 Submitter: D DG Status Code: C

Container Information

Unit of Issue: CN Container Quantity: 1 Type of Container: CAN Net Unit Weight: 24.6 LBS

Article without MSDS: N

Technical Entry NOS Shipping Number:

Radioactivity:

Form:

Net Explosive Weight:

Coast Guard Ammunition Code:

Magnetism: N/P AF MMAC Code:

DOD Exemption Number: Limited Quantity Indicator: Multiple Kit Number: 0

Kit Indicator: N Kit Part Indicator: N Review Indicator: Y Additional Data:

Department of Transportation Information

DOT Proper Shipping Name: METHANOL

DOT PSN Code: JEZ

Symbols: I

DOT PSN Modifier: METHYL ALCOHOL SEE METHANOL

Hazard Class: 3

UN ID Number: UN1230 DOT Packaging Group: II

Label: FLAMMABLE LIQUID, POISON

Special Provision(s): T8
Packaging Exception:
Non Bulk Packaging: 202
Bulk Packaging: 242

Maximimum Quanity in Passenger Area: 1 L Maximimum Quanity in Cargo Area: 60 L

Stow in Vessel Requirements: B Requirements Water/Sp/Other: 40

IMO Detail Information

IMO Proper Shipping Name: METHANOL

IMO PSN Code: JPB IMO PSN Modifier:

IMDG Page Number: 3251

UN Number: 1230 UN Hazard Class: 3.2 IMO Packaging Group: II Subsidiary Risk Label: TOXIC

EMS Number: 3-06

Medical First Aid Guide Number: 306

IATA Detail Information

IATA Proper Shipping Name: METHANOL

IATA PSN Code: QHQ IATA PSN Modifier:

IATA UN Id Number: 1230

IATA UN Class: 3

Subsidiary Risk Class: 6.1 UN Packaging Group: II

IATA Label: FLAMM. LIQ. & TOXIC Packaging Note for Passengers: 305 Maximum Quantity for Passengers: 1L

Packaging Note for Cargo: 307 Maximum Quantity for Cargo: 60L

Exceptions: A104, A113

AFI Detail Information

AFI Proper Shipping Name: METHANOL OR METHYL ALCOHOL

AFI Symbols:

AFI PSN Code: QHQ AFI PSN Modifier:

AFI UN Id Number: UN1230

AFI Hazard Class: 3 AFI Packing Group: II

AFI Label: 6.1

Special Provisions: P4
Back Pack Reference: A7.3

HAZCOM Label Information

Product Identification: METHANOL

CAGE: 00742

Assigned Individual: N

Company Name: AIR PRODUCTS AND CHEMICALS INC

Company PO Box:

Company Street Address1: 7201 HAMILTON BLVD

Company Street Address2: ALLENTOWN, PA 18195-1501 US

Health Emergency Telephone: Label Required Indicator: Y Date Label Reviewed: 12/16/1998

Status Code: C

Manufacturer's Label Number:

Date of Label: 12/16/1998

Year Procured: N/K

Organization Code: F

Chronic Hazard Indicator: N/P Eye Protection Indicator: N/P Skin Protection Indicator: N/P

Respiratory Protection Indicator: N/P

Signal Word: N/P Health Hazard: Contact Hazard: Fire Hazard:

Reactivity Hazard:

8/7/2002 10:05:59 PM

EASTMAN CHEMICAL PRODUCTS, INC. -- ETHYL ACETATE, SPC 23701

MSDS Safety Information

FSC: 6810

NIIN: 00-245-6695 MSDS Date: 10/03/1996

MSDS Num: CBQGX

Product ID: ETHYL ACETATE, SPC 23701

MFN: 02

Responsible Party

Cage: 78364

Name: EASTMAN CHEMICAL PRODUCTS, INC. Address: WILCOX DR AND LINCOLN ST

Box: 431

City: KINGSPORT TN 37662

Info Phone Number: 800-EASTMAN/423-229-2000 (USA)

Emergency Phone Number: 800-EASTMAN/800-424-9300 (CHEMTREC)

Preparer's Name: UNKNOWN

Review Ind: Y Published: Y

Contractor Summary

Cage: 64184

Name: AMJAY CORP. DBA AMJAY CHEMICALS Address: 11200 WESTHEIMER SUITE 310

Box: 218786

City: HOUSTON TX 77218-8786

Phone: 713-492-2000

Cage: 78364

Name: CANCELLED WITHOUT REPLACEMENT (WAS SNYDER, GEO H INC)

Box: 431

City: N/K NK 00000

Phone: NONE Cage: 0VL27

Name: DYNATECH SCIENTIFIC INC

Address: 1401 27TH ST

Box: 640164

City: KENNER LA 70064 Phone: 504-465-9604

Cage: OLNB7

Name: MAGNOLIA CHEMICALS AND SOLVENTS

Address: 1020 SAMS AVENUE

Box: 10276

City: NEW ORLEANS LA 70181-0278

Phone: 504-733-6600

Item Description Information

Item Manager: S9G

Item Name: ETHYL ACETATE, TECHNICAL
Specification Number: TT-E-751C

Type/Grade/Class: NONE

Unit of Issue: DR

Quantitative Expression: 0000000055GL

UI Container Qty: 1

Type of Container: DRUM

Ingredients

Cas: 141-78-6 RTECS #: AH5425000

Name: ETHYL ACETATE (CERCLA)

% Wt: 100

Other REC Limits: NONE RECOMMENDED

OSHA PEL: 400 PPM

ACGIH TLV: 400 PPM; 9596 EPA Rpt Qty: 5000 LBS DOT Rpt Qty: 5000 LBS

Health Hazards Data

LD50 LC50 Mixture: LD50 (ORAL, RAT) IS 5600 MG/KG.

Route Of Entry Inds - Inhalation: YES

Skin: NO

Ingestion: NO

Carcinogenicity Inds - NTP: NO

IARC: NO OSHA: NO

Effects of Exposure: TARGET ORGANS: EYE, SKIN, RESPIRATORY TRACT. ACUTE-

EYE: MAY

CAUSE IRRITATION. SKIN: MAY CAUSE DRYING, CRACKING AND IRRITATION. INHALATION: HIGH VAPOR CONCENTRATIONS MAY CAUSE IRRITATION AND DROWSINESS. O RAL: EXPECTED TO BE A LOW INGESTION HAZARD. CHRONIC- UNKNOWN.

Explanation Of Carcinogenicity: NONE

Signs And Symptions Of Overexposure: IRRITATION, DROWSINESS, NAUSEA, VOMITING,

HEADACHE, DRY SKIN

Medical Cond Aggravated By Exposure: INDIVIDUALS WITH PRE-EXISTING DISEASES OF

THE EYE, SKIN, RESPIRATORY TRACT MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

First Aid: GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. EYES: FLUSH WITH WATER FOR

15 MINUTES. HOLD EYELIDS OPEN. IF EASY TO DO, REMOVE CONTACT LENSES.

SKIN: WASH WITH SOAP & WATER. REMOVE CONTAMINATED CLOTHING. INH

ALED: REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NECESSARY. ORAL: SEEK MEDICAL

ADVICE.

Handling and Disposal

Spill Release Procedures: WEAR PROTECTIVE EQUIPMENT. ELIMINATE SOURCES OF IGNITION. VENTILATE AREA. CONTAIN SPILL. PICK UP SPILL WITH NON-FLAMMABLE ABSORBENT SUCH AS SAND, EARTH/USE PUMP (EXPLOSION PROOF). USE WATER TO DILUTE

SPILL. PREVENT LIQUID FROM ENTERING SEWERS.

Neutralizing Agent: NOT RELEVANT

Waste Disposal Methods: DISCHARGE, TREATMENT OR DISPOSAL IS SUBJECT TO FEDERAL,

STATE OR LOCAL REGULATIONS. INCINERATION OR FUEL USE IS RECOMMENDED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUE, FOLLOW LABEL WARNINGS EVEN AFTER

CONTAINER IS EMPTIED.

Handling And Storage Precautions: STORE IN COOL, VENTILATED AREA AWAY FROM SOURCES OF IGNITION & INCOMPATIBLES. BOND & GROUND ALL CONTAINERS.

Other Precautions: EMPTY CONTAINERS RETAIN RESIDUE. DO NOT CUT, DRILL OR WELD ON OR NEAR THIS CONTAINER. DO NOT GET IN EYES. DO NOT BREATHE VAPOR OR MIST.

AVOID PROLONGED OR REPEATED SKIN CONTACT. WASH THOROUGHLY AFTER HANDLING. KEEP OUT OF REACH OF CHILDREN.

Fire and Explosion Hazard Information

Flash Point Method: TCC

Flash Point Text: 24.0F,-4.4C Autoignition Temp Text: 905F

Lower Limits: 2.02% Upper Limits: 10.7%

Extinguishing Media: USE FOAM, DRY CHEMICAL OR CARBON DIOXIDE. WATER MAY BE INEFFECTIVE BUT SHOULD BE USED TO COOL FIRE-EXPOSED CONTAINERS.

Fire Fighting Procedures: WEAR FULL PROTECTIVE CLOTHING AND NIOSH- APPROVED SELF-CONTAINED BREATHING APPARATUS. EXTINGUISH ONLY IF FLOW CAN BE STOPPED. MOVE CONTAINERS OUT IF POSSIBLE.

Unusual Fire/Explosion Hazard: VAPOR IS HEAVIER THAN AIR AND CAN TRAVEL CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK. CONTAINERS MAY

RUPTURE DUE TO VAPOR PRESSURE BUILDUP.

Control Measures

Respiratory Protection: IF WORKING IN CONFINED AREAS OR IF EXPOSURE MAY OR

EXCEED RECOMMENDED PERMISSIBLE EXPOSURE LIMITS (PEL), WEAR NIOSH- APPROVED RESPIRATORY PROTECTION FOR ORGANIC VAPORS. FOR EMERGENCY AND FIRE, WE AR SELF-CONTAINED BREATHING APPARATUS.

Ventilation: MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves: BUTYL OR PVA

Eye Protection: CHEMICAL SAFETY GOGGLES

Other Protective Equipment: EYE WASH STATION, SAFETY SHOWER, INDUSTRIAL- TYPE WORK CLOTHING, APRON

Work Hygienic Practices: OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING, DRINKING/SMOKING. Supplemental Safety and Health: FORMULA CHANGED. FOR PREVIOUS FORMULATION, SEE

PNI A, SAME NSN.

Physical/Chemical Properties

HCC: F2

NRC/State LIC No: NOT RELEVANT Boiling Point: =78.C, 172.4F

Vapor Pres: 75 @ 68F Vapor Density: 3.0 Spec Gravity: 0.902 Viscosity: UNKNOWN

Evaporation Rate & Reference: 4.1 (N-BUTYL ACETATE=1)

Solubility in Water: MODERATE

Appearance and Odor: COLORLESS, VOLATILE LIQUID WITH A SWEET, ESTER ODOR

Percent Volatiles by Volume: 100 Corrosion Rate: UNKNOWN ______ Reactivity Data ______ Stability Indicator: YES Stability Condition To Avoid: HEAT, DIRECT SUNLIGHT, SPARKS, STATIC ELECTRICITY, FLAMES AND OTHER SOURCES OF IGNITION Materials To Avoid: STRONG OXIDIZING AGENTS, STRONG ACIDS, STRONG BASES Hazardous Decomposition Products: CARBON MONOXIDE, CARBON DIOXIDE Hazardous Polymerization Indicator: NO Conditions To Avoid Polymerization: NOT RELEVANT Toxicological Information ______ ______ Ecological Information ______ MSDS Transport Information _____ ______ Regulatory Information _____ ______ Other Information ______ Transportation Information _____ Responsible Party Cage: 78364 Trans ID NO: 60401 Product ID: ETHYL ACETATE, SPC 23701 MSDS Prepared Date: 10/03/1996 Review Date: 05/28/1997 MFN: 2 Radioactivity: NOT RELEVANT Net Unit Weight: 405.7 LBS Multiple KIT Number: 0 Review IND: Y Unit Of Issue: DR Container QTY: 1 Type Of Container: DRUM Additional Data: DOT HAZARD CLASS, PACKAGING GROUP PER MSDS. REPORTABLE QUANTITY (RQ): 5000 POUNDS. ______ Detail DOT Information DOT PSN Code: FTU DOT Proper Shipping Name: ETHYL ACETATE Hazard Class: 3 UN ID Num: UN1173 DOT Packaging Group: II Label: FLAMMABLE LIQUID Special Provision: T2

Packaging Exception: 150

Non Bulk Pack: 202

Bulk Pack: 242 Max Qty Pass: 5 L Max Qty Cargo: 60 L Vessel Stow Req: B

Detail IMO Information

IMO PSN Code: GPD

IMO Proper Shipping Name: ETHYL ACETATE

IMDG Page Number: 3220

UN Number: 1173 UN Hazard Class: 3.2 IMO Packaging Group: II Subsidiary Risk Label: -EMS Number: 3-07

MED First Aid Guide NUM: 330

Detail IATA Information

IATA PSN Code: KZO IATA UN ID Num: 1173

IATA Proper Shipping Name: ETHYL ACETATE

IATA UN Class: 3

IATA Label: FLAMMABLE LIQUID

UN Packing Group: II

Packing Note Passenger: 305

Max Quant Pass: 5L Max Quant Cargo: 60L Packaging Note Cargo: 307

Detail AFI Information

AFI PSN Code: KZO

AFI Proper Shipping Name: ETHYL ACETATE

AFI Hazard Class: 3
AFI UN ID NUM: UN1173
AFI Packing Group: II
Special Provisions: P5
Back Pack Reference: A7.3

HAZCOM Label

Product ID: ETHYL ACETATE, SPC 23701

Cage: 78364

Company Name: CANCELLED WITHOUT REPLACEMENT (WAS SNYDER, GEO H INC)

PO Box: 431 City: N/K NK Zipcode: 00000

Health Emergency Phone: 800-EASTMAN/800-424-9300 (CHEMTREC)

Label Required IND: Y

Date Of Label Review: 05/28/1997

Status Code: C

MFG Label NO: UNKNOWN Label Date: 05/28/1997 Year Procured: 1997 Origination Code: G Eye Protection IND: YES Skin Protection IND: YES Signal Word: DANGER

Health Hazard: Moderate Contact Hazard: Slight Fire Hazard: Severe Reactivity Hazard: None

Hazard And Precautions: TARGET ORGANS: EYE, SKIN, RESPIRATORY TRACT. ACUTE-EYE: MAY CAUSE IRRITATION. SKIN: MAY CAUSE DRYING. INHALATION: MAY CAUSE IRRITATION & DROWSINESS. ORAL: EXPECTED TO BE A LOW INGESTION HAZARD. CHRONIC- U NKNOWN. STORE IN COOL, VENTILATED AREA AWAY FROM SOURCES OF IGNITION & INCOMPATIBLES. PICK UP SPILL WITH NON-FLAMMABLE ABSORBENT SUCH AS SAND, EARTH/USE PUMP (EXPLOSION PROOF). PREVENT LIQUID FROM ENT ERING SEWERS. FIRST AID- GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. EYES: FLUSH WITH

WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. SKIN: WASH WITH SOAP & WATER. INHALED: REMOVE TO FRESH AIR. PROVIDE CPR/OXYGE N IF NECESSARY. ORAL: SEEK MEDICAL ADVICE.

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Material Safety Data Sheets

Division of Facilities Services

DOD Hazardous Material Information (ANSI Format) For Cornell University Convenience Only

CYCLOHEXANE, ANALYZED REAGENT

Section 1 - Product and Company Identification	Section 9 - Physical & Chemical Properties
Section 2 - Compositon/Information on Ingredients	Section 10 - Stability & Reactivity Data
Section 3 - Hazards Identification Including Emergency Overview	Section 11 - Toxicological Information
Section 4 - First Aid Measures	Section 12 - Ecological Information
Section 5 - Fire Fighting Measures	Section 13 - Disposal Considerations
Section 6 - Accidental Release Measures	Section 14 - MSDS Transport Information
Section 7 - Handling and Storage	Section 15 - Regulatory Information
Section 8 - Exposure Controls & Personal Protection	Section 16 - Other Information

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Section 1 - Product and Company Identification CYCLOHEXANE, ANALYZED REAGENT

Product Identification: CYCLOHEXANE, ANALYZED REAGENT **Date of MSDS:** 01/01/1985 **Technical Review Date:** 02/27/1984

FSC: 6810 **NIIN:** 00-982-3740

Submitter: N EN Status Code: C

MFN: 01 Article: N Kit Part: N

Manufacturer's Information

Manufacturer's Name: J.T. BAKER CHEMICAL CO Manufacturer's Address1: 222 RED SCHOOL LANE

Manufacturer's Address2: PHILLIPSBURG, NJ 08865-2219

Manufacturer's Country: US

General Information Telephone: 201-859-2151

Emergency Telephone: 201-859-2151 Emergency Telephone: 201-859-2151

MSDS Preparer's Name: N/P

Proprietary: N Reviewed: Y Published: Y CAGE: 5B970

Special Project Code: N

Item Description

Item Name: CYCLOHEXANE, ANALYZED REAGENT

Item Manager:

Specification Number: NK Type/Grade/Class: NK

Unit of Issue:

Unit of Issue Quantity: Type of Container:

Contractor Information

Contractor's Name: J.T. BAKER CHEMICAL COMPANY SUB OF RICHARDSON-VICKS

INC

Contractor's Address1: 995 ZEPHYR AVE

Contractor's Address2: HAYWARD, CA 94544-7917

Contractor's Telephone: UNK Contractor's CAGE: 5B970

Contractor Information

Inhalation: N/P Skin: N/P

Ingestion: N/P

Carcenogenicity Indicators

NTP: N/P IARC: N/P OSHA: N/P

Carcinogenicity Explanation: N/P

Section 4 - First Aid Measures CYCLOHEXANE, ANALYZED REAGENT

First Aid:

EYE: FLUSH WITH WATER 15 MIN. SKIN: FLUSH WITH WATER. INHALATION: REMOVE FROM EXPOSURE, GIVE ARTIF RESP IF NEEDED.

Section 5 - Fire Fighting Measures CYCLOHEXANE, ANALYZED REAGENT

Fire Fighting Procedures:

N/P

Unusual Fire or Explosion Hazard:

FLAMMABLE LIQUID

Extinguishing Media:

FOAM, DRY CHEMICAL, CARBON DIOXIDE Flash Point: Flash Point Text: -4F/-20C (CC)

Autoignition Temperature:

Autoignition Temperature Text: N/A

Lower Limit(s): 1.3 Upper Limit(s): 8.4

Section 6 - Accidental Release Measures CYCLOHEXANE, ANALYZED REAGENT

Spill Release Procedures:

ELIMINATE ALL SOURCES OF IGNITION. ABSORB SPILL ON SAND, EARTH OR VERMICULITE. CAREFULLY SWEEP UP AND REMOVE. ALTERNATIVELY USE J.T. BAKER'S FLAMMABLE SOLVENT SPIL CLEAN-UP KIT.

Section 7 - Handling and Storage CYCLOHEXANE, ANALYZED REAGENT

Handling and	Storage	Precautions:
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Other Precautions:

Contractor's Name: MALLINCKRODT BAKER, INC. (FORMERLY J.T. BAKER INC)

Contractor's Address1: 222 RED SCHOOL LANE

Contractor's Address2: PHILLIPSBURG, NJ 08865-2219

Contractor's Telephone: 800-582-2537

Contractor's CAGE: 70829

Section 2 - Compositon/Information on Ingredients CYCLOHEXANE, ANALYZED REAGENT

Ingredient Name: CYCLOHEXANE (SARA III)

Ingredient CAS Number: 110-82-7 Ingredient CAS Code: M

RTECS Number: GU6300000 RTECS Code: M

=WT: =WT Code:

=Volume: =Volume Code:

>WT: >WT Code:

>Volume: >Volume Code:

<WT: <WT Code:

<Volume: <Volume Code:

% Low WT: % Low WT Code:

% High WT: % High WT Code:

% Low Volume: % Low Volume Code:

% High Volume: % High Volume Code:

% Text: N/P

% Environmental Weight:

Other REC Limits: N/P

OSHA PEL: 300 PPM OSHA PEL Code: M

OSHA STEL: OSHA STEL Code:

ACGIH TLV: 300 PPM, 9192 ACGIH TLV Code: M

ACGIH STEL: N/P ACGIH STEL Code: **EPA Reporting Quantity: 1000 LBS DOT Reporting Quantity: 1000 LBS**

Ozone Depleting Chemical: N

Section 3 - Hazards Identification, Including Emergency Overview CYCLOHEXANE, ANALYZED REAGENT

Health Hazards Acute & Chronic: N/P

Signs & Symptoms of Overexposure:

EYE/SKIN: IRRITATION. VAPORS: MAY ACT AS A NARCOTIC

Medical Conditions Aggravated by Exposure:

N/P

LD50 LC50 Mixture: N/P **Route of Entry Indicators:**

Section 8 - Exposure Controls & Personal Protection CYCLOHEXANE, ANALYZED REAGENT

Repiratory Protection:

NIOSH/MSHA APPROVED RESP DEVICE IN ACCORD WITH EXPOSURE OF CONCERN

Ventilation:

LOCAL

Protective Gloves:

RUBBER

Eye Protection: SAFETY GLASSES

Other Protective Equipment: APPROVED WORKING CLOTHES, EYEBATH, SAFETY

SHOWER.

Work Hygenic Practices: N/P

Supplemental Health & Safety Information: CONTAINER SIZE: 500 ML BOTTLE

Section 9 - Physical & Chemical Properties CYCLOHEXANE, ANALYZED REAGENT

HCC: F2

NRC/State License Number: N/A Net Property Weight for Ammo: N/A

Boiling Point: Boiling Point Text: 80.7C/176F

Melting/Freezing Point: Melting/Freezing Text: N/A Decomposition Point: Decomposition Text: N/A

Vapor Pressure: N/P Vapor Density: 2.9

Percent Volatile Organic Content:

Specific Gravity: 0.78

Volatile Organic Content Pounds per Gallon:

pH: N/P

Volatile Organic Content Grams per Liter:

Viscosity: N/P

Evaporation Weight and Reference: N/P

Solubility in Water: NEGLIGIBLE

Appearance and Odor: COLORLESS LIQUID; SOLVENT ODOR

Percent Volatiles by Volume: N/P

Corrosion Rate: N/P

Section 10 - Stability & Reactivity Data CYCLOHEXANE, ANALYZED REAGENT

Stability Indicator: YES Materials to Avoid: NITROGEN DIOXIDE

Stability Condition to Avoid:

N/P

Hazardous Decomposition Products:

N/P Hazardous Polymerization Indicator: NO **Conditions to Avoid Polymerization:** N/P Section 11 - Toxicological Information CYCLOHEXANE, ANALYZED REAGENT **Toxicological Information:** N/P Section 12 - Ecological Information CYCLOHEXANE, ANALYZED REAGENT **Ecological Information:** N/P Section 13 - Disposal Considerations CYCLOHEXANE, ANALYZED REAGENT Waste Disposal Methods: INCINERATE IN A FURNACE PROVIDING ENVIRONMENTAL REGULATIONS PERMIT. Section 14 - MSDS Transport Information CYCLOHEXANE, ANALYZED REAGENT **Transport Information:** N/P **Section 15 - Regulatory Information** CYCLOHEXANE, ANALYZED REAGENT **SARA Title III Information:** N/P Federal Regulatory Information: N/P

State Regulatory Information:

N/P

Section 16 - Other Information CYCLOHEXANE, ANALYZED REAGENT

Other Information:

N/P

HMIS Transportation Information

Product Identification: CYCLOHEXANE, ANALYZED REAGENT

Transporation ID Number: 96266 Responsible Party CAGE: 5B970 Date MSDS Prepared: 01/01/1985 Date MSDS Reviewed: 09/05/1986

MFN: 09/05/1986 Submitter: N TN Status Code: C

Container Information

Unit of Issue:

Container Quantity: Type of Container: Net Unit Weight:

Article without MSDS: N

Technical Entry NOS Shipping Number:

Radioactivity:

Form:

Net Explosive Weight:

Coast Guard Ammunition Code:

Magnetism: N/P
AF MMAC Code:

DOD Exemption Number: Limited Quantity Indicator: Multiple Kit Number: 0

Kit Indicator: N
Kit Part Indicator: N
Review Indicator: Y
Additional Data:

Department of Transportation Information

DOT Proper Shipping Name: CYCLOHEXANE

DOT PSN Code: ECV

Symbols:

DOT PSN Modifier: Hazard Class: 3

UN ID Number: UN1145
DOT Packaging Group: II
Label: FLAMMABLE LIQUID
Special Provision(s): B101,T8
Packaging Exception: 150
Non Bulk Packaging: 202

Bulk Packaging: 242

Maximimum Quanity in Passenger Area: 5 L Maximimum Quanity in Cargo Area: 60 L

Stow in Vessel Requirements: E Requirements Water/Sp/Other:

IMO Detail Information

IMO Proper Shipping Name: CYCLOHEXANE

IMO PSN Code: EXT IMO PSN Modifier:

IMDG Page Number: 3114

UN Number: 1145 UN Hazard Class: 3.1 IMO Packaging Group: II Subsidiary Risk Label: -EMS Number: 3-07

Medical First Aid Guide Number: 310

IATA Detail Information

IATA Proper Shipping Name: CYCLOHEXANE

IATA PSN Code: HWK IATA PSN Modifier:

IATA UN Id Number: 1145

IATA UN Class: 3 Subsidiary Risk Class: UN Packaging Group: II

IATA Label: FLAMMABLE LIQUID Packaging Note for Passengers: 305 Maximum Quantity for Passengers: 5L

Packaging Note for Cargo: 307 Maximum Quantity for Cargo: 60L

Exceptions:

AFI Detail Information

AFI Proper Shipping Name: CYCLOHEXANE

AFI Symbols:

AFI PSN Code: HWK AFI PSN Modifier:

AFI UN Id Number: UN1145

AFI Hazard Class: 3 AFI Packing Group: II

AFI Label:

Special Provisions: P5
Back Pack Reference: A7.3

HAZCOM Label Information

Product Identification: CYCLOHEXANE, ANALYZED REAGENT

CAGE: 5B970

Assigned Individual: N

Company Name: J.T. BAKER CHEMICAL COMPANY SUB OF RICHARDSON-VICKS

INC

Company PO Box:

Company Street Address1: 995 ZEPHYR AVE

Company Street Address2: HAYWARD, CA 94544-7917 US

Health Emergency Telephone: 201-859-2151

Label Required Indicator: Y
Date Label Reviewed: 12/16/1998

Status Code: C

Manufacturer's Label Number:

Date of Label: 12/16/1998 Year Procured: N/K

Organization Code: F

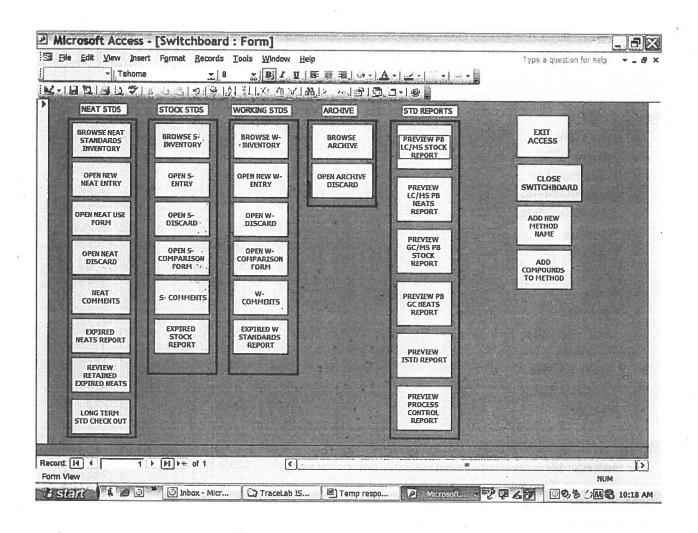
Chronic Hazard Indicator: N/P Eye Protection Indicator: N/P Skin Protection Indicator: N/P

Respiratory Protection Indicator: N/P

Signal Word: N/P Health Hazard: Contact Hazard: Fire Hazard:

Reactivity Hazard:

8/8/2002 1:30:49 AM



Access Database Data Fields

Neat Inventory

- Key Code
- Internal ID
- CAS Number
- Pesticide Name
- Expiration Date
- Supplier
- Stock #
- Lot #
- Purity
- Quantity
- Date Received
- P-Listed
- Received By
- Disposal Date
- Retained

Expired Neat Standard Report

- Internal ID
- Pesticide Name
- Expiration Date
- Expired
- P-Listed

Standards Inventory Table

- Key
- "S" Number
- Pesticide Name
- Parent
- Solvent
- Concentration
- Expiration Date
- "S" Standard Compared
- P-Listed
- "W" Standard Compared
- Pass
- Comparison Date
- Disposal Date
- Comments